

Public Health Reports

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WASHINGTON, D. C., APRIL 15, 1898.

No. 15.

UNITED STATES.

Addition to quarantine regulations—Consular bills of health.

[Circular No. 64.]

TREASURY DEPARTMENT,
OFFICE OF THE SUPERVISING SURGEON-GENERAL,
MARINE-HOSPITAL SERVICE,
Washington, D. C., April 12, 1898.

*To officers of the Treasury Department,
consular officers, and others concerned :*

Referring to Department circular dated April 26, 1894, United States Quarantine Laws and Regulations, and to Article I, paragraph 2, regulations to be observed at foreign ports, the following addition is hereby made to the consular bill of health (Form 1931 a), to be furnished vessels bound for the United States, viz :

"Number of cases of sickness and character of same while vessel was in this port, ———."

L. J. GAGE, *Secretary.*

[Reports to the Supervising Surgeon-General United States Marine-Hospital Service.]

Smallpox at Mobile, Ala.

MOBILE, ALA., April 9, 1898.

SIR: I have the honor to report that 1 case of smallpox in a colored railroad hand was sent to the pesthouse yesterday. He reached this city from Evergreen, Ala., via Hurricane Bayou.

There are no new cases reported from Hurricane Bayou.

I am, very respectfully, your obedient servant,

R. D. MURRAY,
Surgeon, U. S. M. H. S.

Smallpox at Middlesborough, Ky.—(Continued).

MIDDLESBOROUGH, KY., April 7, 1898.

SIR: I have the honor to make the following report on the smallpox situation in this city:

In [the smallpox hospital there remain 19 cases; in the detention camp, 14. Since the last report (March 28, ultimo) 5 new cases of smallpox have developed, 2 of which were in the detention camp. The last case occurred yesterday.

It was thought best to continue the quarantine of the city until another thorough house-to-house inspection could be made, and until the work of disinfection of all known infected houses could be completed. The 300 tubes of virus, telegraphed for upon my arrival April 4, came yesterday and another inspection of the city was begun. This will be finished this week, as will also the work of disinfection.

In my opinion, quarantine may be safely raised on Monday, April 11, and I have communicated with the State board of health, through its representative here, to that effect. By that time the detention camp can be abandoned, the quarantine guards dismissed, and our force reduced to those necessary for the care of the three or four patients remaining in the smallpox hospital. Unless other cases develop these few can be transferred to the county pesthouse, if orders to that effect are received from the Bureau, and the Service affairs here can be brought to a close on the 12th or 13th instant.

* * * * *

Very respectfully,

HILL HASTINGS,
Assistant Surgeon, U. S. M. H. S.

[Telegram.]

MIDDLESBOROUGH, KY., April 12, 1898.

Work is finished. The 3 remaining convalescents in pesthouse can be turned over to health officer and Service affairs terminated to-morrow, if so ordered.

HASTINGS, Assistant Surgeon, U. S. M. H. S.

Smallpox at Little Rock, Ark.—(Continued).

LITTLE ROCK, ARK., April 7, 1898.

SIR: I have the honor to report as follows for the week ended April 7, concerning the smallpox in Little Rock: Since my first report, dated March 31, 1898, 4 more cases have been discovered, making a total of 6 cases to date. All of the cases are among negroes, and with the exception of 1 case in Argenta (North Little Rock), have developed in the southwestern part of the city, where the negro population mostly reside. All cases have been removed to smallpox hospital and places of origin disinfected and guarded.

Very respectfully,

L. P. GIBSON,
Acting Assistant Surgeon, U. S. M. H. S.

Smallpox in Ohio.

COLUMBUS, OHIO, April 8, 1898.

SIR: I beg to inform you of the existence of 6 cases of smallpox in Fairfield County, near the village of Carroll. The first case occurred in

a man named Smith, a resident who returned from Waycross, Ga., shortly before he was taken ill. He died and 5 cases developed in that family and another case in a family living near by. Proper precautions are being taken.

Yours truly,

C. O. PROBST,
Secretary, State Board.

Climate of Seattle, Wash.

SEATTLE, WASH., March 29, 1898.

SIR: In answering the letter of inquiry of C. L. Minor, M. D., of Asheville, N. C., I have the honor to submit the following detail of Seattle's climate, which is based upon the official records of the United States Weather Bureau at this city, covering a period of seven years:

January, mean temperature, 40.6 degrees; precipitation, mean, 4.80 inches; wind, mean velocity, 7 miles; relative humidity, 82 per cent. February, mean temperature, 41 degrees; mean precipitation, 3.41 inches; wind, mean velocity hourly, 8 miles; relative humidity, 81 per cent. March, mean temperature, 45 degrees; mean precipitation, 3.42 inches; wind mean velocity hourly, 6 miles; relative humidity, 82 per cent. April, mean temperature, 49 degrees; mean precipitation, 4.01 inches; wind, mean velocity hourly, 7 miles; relative humidity, 70 per cent. May, mean temperature, 55 degrees; mean precipitation, 2.65 inches; wind, mean velocity hourly, 6 miles; relative humidity, 70 per cent. June, mean temperature, 60 degrees; mean precipitation, 1.35 inches; wind, mean velocity hourly, 5 miles; relative humidity, 66 per cent. July, mean temperature, 64 degrees; mean precipitation, 0.46 of an inch; wind, mean velocity hourly, 4 miles relative humidity, 65 per cent. August, mean temperature, 64 degrees; mean precipitation, 0.27 of an inch; wind, mean velocity hourly, 3 miles; relative humidity, 74 per cent. September, mean temperature, 57 degrees; mean precipitation, 2.08 inches; wind, mean velocity hourly, 3 miles; relative humidity, 78 per cent. October, mean temperature, 52 degrees; mean precipitation, 2.52 inches; wind, mean velocity hourly, 4 miles; relative humidity, 81 per cent. November, mean temperature, 45 degrees; mean precipitation, 5.83 inches; wind, mean velocity hourly, 6 miles; relative humidity, 83 per cent. December, mean temperature, 42 degrees; mean precipitation, 5.94 inches; wind, mean velocity hourly, 6 miles; relative humidity, 88 per cent.

The mean annual temperature is 51 degrees; the highest recorded is 93 in June; the lowest 22 in March. The mean precipitation for the year is 37.94 inches, distributed over 168 cloudy and 110 partially cloudy days. The rain is very seldom heavy, much of it being a light, misty form, hardly requiring the protection of an umbrella or raincoat.

Cases of pulmonary tuberculosis do not do well here. Those originating here usually run a rapid course. Where the patient's circumstances permit, we usually send them to Albuquerque, New Mexico.

Very respectfully, your obedient servant,

JAS. B. EAGLESON,
Acting Assistant Surgeon, U. S. M. H. S.

*Smallpox in the United States as reported to the Supervising Surgeon-General United States
Marine-Hospital Service, January 1 to April 15, 1898.*

Places.	Date.	Cases.	Deaths.	Remarks.
Alabama:				
Bessemer.....	Jan. 6.....	42		
	Jan. 9-Jan. 26.....	78		
	Jan. 30-Feb. 19.....	23		
Birmingham.....	Jan. 6-Jan. 8.....	11		
	Jan. 9-Jan. 26.....	29		
	Jan. 30-Feb. 19.....	7		
In Jefferson county, outside of the city.....	Feb. 6-Feb. 19.....	26		
Carneys Bluff.....	Feb. 17.....			Smallpox reported.
Corona.....	Mar. 4.....	1		
Dolomite.....	Dec. 1-Jan. 17.....	21		
Gosport.....	Feb. 17.....			Do.
Glendon.....	Feb. 17.....			Do.
Haynesville.....	Mar. 11.....	400		
Horse Creek Mine.....	Mar. 4.....	3		
Hurricane Bayou.....	Mar. 31.....	5		
Jackson.....	Feb. 17.....	10		
Mobile.....	Feb. 5-Apr. 9.....	37	1	
Montevallo.....	Mar. 3.....	1		
Newton.....	Jan. 15-Feb. 2.....	7		
Nichola.....	Feb. 17.....			Do.
Ozmar.....	Jan. 19.....			Do.
Patton.....	Feb. 1-Mar. 4.....	9		
Pinckard.....	Feb. 2.....	50		
Rock Springs.....	Mar. 11.....	15		
Salitpa.....	Feb. 17.....			Do.
Selma.....	Jan. 13-Feb. 14.....	3		
Shelby.....	Jan. 28.....	1		
Talladega.....	Jan. 9-Jan. 26.....	41		
	Jan. 27-Feb. 15.....	4		
Walker Springs.....	Feb. 17.....			Do.
Arkansas:				
Fair Oaks.....	Mar. 1.....	5		
Little Rock.....	Mar. 31-Apr. 7.....	6		
District of Columbia:				
Washington.....	Feb. 7.....	1		Naval Hospital.
	Apr. 2.....	1		
Florida:				
Jacksonville.....	Mar. 20-Mar. 26.....	1		
Washington County.....	Jan. 24.....	12		
Georgia:				
Atlanta.....	Jan. 17.....	131		Most cases from county.
	Jan. 18-Jan. 25.....	18	1	
	Jan. 26-Feb. 16.....	29	1	
Cartersville.....	Jan. 15-Mar. 1.....	9	1	
Griffin.....	Feb. 12.....	2		
Macon.....	Jan. 15-Apr. 1.....	64	1	
Stilesboro.....	Jan. 15.....			Smallpox reported.
Indiana:				
Evansville.....	Feb. 26.....	1		
Kentucky:				
Butler.....	Feb. 8-Feb. 24.....	1		
Middlesborough.....	Feb. 3-Apr. 7.....	183	2	
Louisiana:				
New Orleans.....	Mar. 13-Apr. 2.....	3		
Massachusetts:				
Greenfield.....	Feb. 5-Feb. 22.....	1		
Westfield.....	Feb. 20-Mar. 2.....	1		
Michigan:				
Ionis.....	Mar. 20-Mar. 26.....			Do.
Royal Oak.....	Feb. 12-Mar. 12.....	1		
New Jersey:				
We- field.....	Mar. 4.....	1		
New Mexico:				
Albuquerque and vicinity.....	Mar. 5-Apr. 1.....	14		
New York:				
Deposit.....	Nov. 1-Nov. 30.....	1		
North Carolina:				
Alamance County.....	Feb. 18-Feb. 25.....	1		
Charlotte.....	Jan. 25.....	2		
	Jan. 26-Feb. 12.....	2		
Clay County.....	Feb. 15-Feb. 24.....	3		
Wilmington.....	Jan. 12.....	1		
Ohio:				
Fairfield County.....	Apr. 8.....	7	1	
South Carolina:				
Arkwright.....	Mar. 25.....	9		
Beaufort.....	Jan. 17.....			Do.
Columbia.....	Apr. 6.....			Do.
Dyson.....	Mar. 25.....	3		

Smallpox in the United States, etc.—Continued.

Places.	Date.	Cases.	Deaths.	Remarks.
South Carolina—Continued.				
Greenville.....	Jan. 17.....	.....	.....	Smallpox reported.
Orangeburg.....	Jan. 17.....	.....	.....	Do.
Pelham.....	Mar. 25.....	20	.....	.....
Ridge Springs.....	Mar. 25.....	1	.....	.....
Rock Hill.....	Jan. 17.....	.....	.....	Do.
Spartanburg.....	Jan. 17.....	.....	.....	Do.
Swansea.....	Jan. 15.....	.....	.....	Do.
Tennessee:				
Bristol.....	Mar. 1-Mar. 31....	1	.....	.....
Chattanooga.....	Jan. 1-Jan. 29....	1	.....	.....
.....	Feb. 1-Mar. 31....	19	.....	.....
Elk Valley.....	Mar. 1-Mar. 31....	1	.....	.....
Huntington (near).....	Jan. 1-Jan. 29....	1	.....	.....
Jellico.....	Feb. 1-Mar. 31....	9	.....	.....
Johnson City.....	Feb. 1-Mar. 31....	13	.....	.....
Knoxville.....	Jan. 1-Jan. 29....	3	.....	.....
.....	Feb. 1-Mar. 31....	28	.....	.....
Lenoir City.....	Jan. 1-Jan. 29....	2	.....	.....
.....	Feb. 1-Feb. 28....	3	.....	.....
Memphis.....	Jan. 22-Jan. 29....	1	.....	.....
.....	Jan. 30-Feb. 10....	1	.....	.....
Mingo mines.....	Jan. 1-Jan. 29....	6	.....	.....
Mingo.....	Feb. 1-Mar. 31....	3	.....	.....
Morristown.....	Feb. 1-Mar. 31....	6	.....	.....
Newcomb.....	Feb. 1-Feb. 28....	3	.....	.....
Rockford.....	Mar. 1-Mar. 31....	1	.....	.....
Rutledge.....	Feb. 1-Mar. 31....	12	.....	.....
Shields Ferry.....	Mar. 1-Mar. 31....	4	.....	.....
Sprowles.....	Mar. 1-Mar. 31....	1	.....	.....
Texas:				
Brownsville.....	Feb. 26.....	1	.....	.....
Virginia:				
Colburn.....	Feb. 1.....	.....	.....	Do.
Norfolk.....	Mar. 1-Mar. 10....	2	.....	.....
Norton.....	Feb. 1.....	.....	.....	Do.
West Virginia:				
Bluefield.....	Feb. 25.....	5	.....	.....

Report of immigration at Boston for the week ended April 9, 1898.

OFFICE OF U. S. COMMISSIONER OF IMMIGRATION,
Port of Boston, April 9, 1898.

*Number of alien immigrants who arrived at this port during the week ended April 9, 1898;
 also names of vessels and ports from which they came.*

Date.	Vessel.	Wherefrom.	No. of immigrants.
Apr. 3	Steamship Roman.....	Liverpool, England.....	30
Do....	Steamship Boston.....	Yarmouth, Nova Scotia.....	192
Apr. 4	Steamship Belvidere.....	Port Morant, Jamaica.....	4
Apr. 5	Steamship Prince Edward.....	Yarmouth, Nova Scotia.....	23
Do....	Steamship Armenian.....	Liverpool, England.....	29
Do....	Steamship Sagamore.....	do.....	26
Apr. 7	Steamship Barrowmore.....	London, England.....	24
Do....	Steamship Boston.....	Yarmouth, Nova Scotia.....	153
Do....	Steamship Halifax.....	Halifax, Nova Scotia.....	90
Apr. 8	Steamship Prince Edward.....	Yarmouth, Nova Scotia.....	34
Do....	Steamship Corinthia.....	Liverpool, England.....	2
Apr. 9	Steamship Bohemia.....	Hamburg, Germany.....	88
Total.....			690

GEORGE B. BILLINGS,
Commissioner.

*Report of immigration at New York for the week ended April 9, 1898.*OFFICE OF U. S. COMMISSIONER OF IMMIGRATION,
*Port of New York, April 11, 1898.**Number of alien immigrants who arrived at this port during the week ended April 9, 1898;
also names of vessels and ports from which they came.*

Date.	Vessel.	Where from.	No. of immigrants.
Apr. 3	Steamship Tartar Prince	Genoa and Naples.....	970
Do....	Steamship Rotterdam.....	Rotterdam.....	209
Apr. 4	Steamship Vega	Lisbon and the Azores....	136
Do....	Steamship La Bretagne	Havre	482
Apr. 5	Steamship Furnessia	Glasgow.....	239
Do....	Steamship Friesland	Antwerp.....	298
Apr. 6	Steamship Augusta Victoria.....	Naples and Genoa.....	606
Do....	Steamship Kaiser Wilh-der Grosse.	Bremen.....	588
Apr. 7	Steamship Island.....	Copenhagen, etc.....	133
Apr. 8	Steamship Karlsruhe.....	Bremen.....	611
Do....	Steamship Siberian.....	Glasgow.....	46
Apr. 9	Steamship Britannic.....	Liverpool and Queenstown.....	376
Do....	Steamship Pretoria.....	Hamburg.....	667
Total.....			5,361

THOMAS FITCHIE,
*Commissioner.**Report of immigration at Philadelphia for the week ended April 9, 1898.*OFFICE OF U. S. COMMISSIONER OF IMMIGRATION,
*Port of Philadelphia, April 9, 1898.**Number of alien immigrants who arrived at this port during the week ended April 9, 1898;
also names of vessels and ports from which they arrived.*

Date.	Vessel.	Where from.	No. of immigrants.
Apr. 4	Steamship Belgenland.....	Liverpool and Queenstown.....	124
Do....	Steamship Minnesota.....	London.....	4
Do....	Steamship Ethelwold.....	Jamaica.....	3
Apr. 7	Steamship Nederland.....	Antwerp.....	276
Total.....			407

J. L. HUGHES,
*Acting Commissioner.**Report of the inspection of immigrants at New York during April, 1898.*U. S. IMMIGRATION SERVICE, MEDICAL DIVISION,
New York, April 7, 1898.

Number of steerage passengers examined during March, 22,254; rejected as suffering from loathsome or dangerous contagious diseases and detained pending action of commissioner of immigration, 42; favus, 21; trachoma, 21.

Of the 42 immigrants rejected, 33 have been deported, 2 discharged by order of the United States court (natives), 1 deserted and 6 are remaining pending action.

Respectfully submitted,

J. H. WHITE,
Passed Assistant Surgeon, U. S. M. H. S.

QUARANTINE REPORTS.

National quarantine and inspection stations.

[Vessels named only when detained or given treatment at quarantine.]

Name of station.	Week ended.	Name of vessel.	Date of arrival.	Port of departure.	Destination.	Treatment of vessel, passengers, and cargo.	Date of departure.	Remarks.	Vessels inspected and passed.
Alexandria, Va.	Apr. 9							No transactions.	1
Brunswick, Ga.	do.								9
Cape Charles Quarantine, Va.	do.								1
Cape Fear, N. C.	do.								2
Delaware Breakwater Quarantine, Del.	Mar. 23							No transactions.	
Eureka, Cal.	Apr. 5							2 men left at Barbados said to have typhoid fever.	3
Grays Harbor, Wash.	Apr. 2	Nor. bk. Dilbhura	Mar. 25	Montevideo via Barbados.	Mobile	Held for disinfection after discharge of ballast.		No transactions.	4
Gulf Quarantine, Ship Island, Miss.	Apr. 9								20
Newbern, N. C.	Apr. 2								3
Port Townsend, Wash.	Apr. 9							55 cases and 35 deaths from plague and 47 cases and 20 deaths from smallpox on bill of health of ss. Peru.	14
Reedy Island Quarantine, Del.	Apr. 9							71 Japanese and 99 Chinese; 200 passengers bathed and their clothing and baggage disinfected.	
San Diego, Cal.	Apr. 2							Remanded from Fernandina, Fla.; 2 deaths from yellow fever on voyage.	11
San Francisco Quarantine, Cal.	do.							No transactions.	
South Atlantic Quarantine, Blackbeard Island, Ga.	do.	Nor. bk. H. P. Nelson.	Mar. 30	Para.	Jacksonville.	Held for disinfection.		do.	
Tortugas Quarantine, Key West, Fla.	Mar. 26								
Washington, N. C.	Apr. 9								

a Previously reported.

QUARANTINE REPORTS—Continued.

State and municipal quarantine stations.

[Vessels named only when detained or given treatment at quarantine.]

Name of station.	Week ended.	Name of vessel.	Date of arrival.	Port of departure.	Destination.	Treatment of vessel, passengers, and cargo.	Date of departure.	Remarks.	Vessels inspected and passed.
Anclote, Fla.								No report.	
Apalachicola, Fla.								do.	16
Bangor, Me.	Mar. 26							do.	17
Boston, Mass.	Apr. 2							do.	12
	Apr. 9							do.	3
	do.							do.	3
	do.							do.	4
Carrabelle, Fla.								No report.	
Charleston, S. C.								do.	
Elizabeth River, Va.								do.	
Galveston, Tex.								do.	
Gardiner, Ore.								do.	
Georgetown, S. C.								do.	
Gloucester, Mass.								do.	
Key West, Monroe Co., Fla.	Apr. 9							do.	24
Mayport, Fla.	do.							do.	14
Mobile Bay, Ala.	do.							do.	10
New Bedford, Mass.		Nor. bk. Belfast.	Apr. 3	Bahia	Mobile	Disinfected and held.		No report.	
New Orleans, La.								do.	8
Newport News, Va.	Apr. 9							No report.	
Newport, R. I.								do.	
New York, N. Y.								do.	
Port Royal, S. C.								do.	
Providence, R. I.	Apr. 9							No transactions.	
St Helena Entrance, S. C.	Apr. 2							No report.	12
Savannah, Ga.	Apr. 9							do.	8

Reports of States and yearly and monthly reports of cities.

CALIFORNIA—*Sacramento*.—Month of March, 1898. Estimated population, 30,000. Total deaths, 35, including phthisis pulmonalis, 4, and enteric fever, 1.

CONNECTICUT—*Hartford*.—Month of March, 1898. Estimated population, 72,000. Total deaths, 107, including phthisis pulmonalis, 11, and enteric fever, 2.

Westport.—Month of March, 1898. Estimated population, 4,000. Total deaths, 12, including 4 from phthisis pulmonalis.

FLORIDA—*Tampa*.—Month of March, 1898. Estimated population, 26,000. Total deaths, 28, including phthisis pulmonalis, 8, and enteric fever, 1.

INDIANA—*Evansville*.—Month of March, 1898. Estimated population, 65,000. Total deaths, 70, including phthisis pulmonalis, 2; enteric fever, 1, and whooping cough, 1.

MASSACHUSETTS—*Fitchburg*.—Month of March, 1898. Estimated population, 28,392. Total deaths, 36, including phthisis pulmonalis, 7; enteric fever, 1, and whooping cough, 1.

Newton.—Month of February, 1898. Estimated population, 27,500. Total deaths, 35, including 1 from phthisis pulmonalis and 1 from whooping cough.

MICHIGAN.—Week ended April 2, 1898. Reports to the State board of health, Lansing, from 64 observers, indicate that inflammation of kidney increased and measles decreased in area of prevalence. Phthisis pulmonalis was reported present during the week at 137, measles at 50, scarlet fever at 26, diphtheria at 19, enteric fever at 18, whooping cough at 7, and smallpox at 1 place (Ionia).

NEW HAMPSHIRE—*Manchester*.—Month of March, 1898. Estimated population, 60,000. Total deaths, 96, including phthisis pulmonalis, 5, and enteric fever, 1.

NEW JERSEY—*Paterson*.—Month of February, 1898. Estimated population, 63,287. Total deaths, 119, including phthisis pulmonalis, 11; enteric fever, 4; scarlet fever, 2, and diphtheria, 4.

OHIO—*Toledo*.—Month of March, 1898. Estimated population, 143,755. Total deaths, 131, including phthisis pulmonalis, 9; enteric fever, 5, and whooping cough, 1.

PENNSYLVANIA—*Meadville*.—Month of March, 1898. Estimated population, 12,000. Total deaths, 8, including 1 from phthisis pulmonalis.

RHODE ISLAND—*Newport*.—Month of March, 1898. Estimated population, 21,500. Total deaths, 27, including 3 from phthisis pulmonalis.

TENNESSEE—*Nashville*.—Month of March, 1898. Estimated population, white, 54,595; colored, 33,159; total, 87,754. Deaths, white, 64; colored, 69; total, 133, including phthisis pulmonalis, 12, and 1 from enteric fever.

MORTALITY TABLE, CITIES OF THE UNITED STATES.

Cities.	Week ended.	Population, U. S. Census of 1890.	Total deaths from all causes.	Deaths from—										
				Phthisis pulmonalis.	Yellow fever.	Smallpox.	Varioloid.	Cholera.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
Allegheny, Pa.	Apr. 9.	105,287	32	3						2				1
Ashtabula, Ohio.	do.	8,338	1							1				
Baltimore, Md.	do.	434,439	18							5	2	6	4	1
Binghamton, N. Y.	do.	35,005	9											
Boston, Mass.	do.	448,477	21	27						1		3		2
Bristol, R. I.	Apr. 2.	5,418	9											
Do	Mar. 26.	5,478	9	2										
Brockton, Mass.	Apr. 2.	27,294	8								1			
Do	Apr. 9.	27,294	3											
Cambridge, Mass.	do.	70,028	33	6								1		
Chicago, Ill.	Apr. 2.	1,099,850	530	63						9	3	10	1	4
Do	Apr. 9.	1,099,850	510	57						17	2	7		8
Cincinnati, Ohio.	Apr. 8.	296,908	50	8						1				6
Columbus, Ind.	Apr. 9.	6,719	5	1										1
Columbus, Ohio.	Apr. 8.	88,150	25	3										
Concord, N. H.	Apr. 9.	17,044	5											
Dayton, Ohio.	do.	61,223	30	4										
Dedham, Mass.	Apr. 2.	7,123	2	1										
Denver, Colo.	Mar. 26.	106,713	32	6						1	1			
Do	Apr. 2.	106,713	37	10								2		
Detroit, Mich.	Apr. 9.	208,876	108	12								1		
Dubois, Pa.	Apr. 2.	6,149	0											
Do	Apr. 9.	6,149	2											
Dunkirk, N. Y.	Apr. 2.	9,416	2											
Erie, Pa.	do.	40,634	11	1							1			
Do	Apr. 9.	40,634	11											
Everett, Mass.	Apr. 2.	11,068	3											
Fall River, Mass.	Apr. 9.	74,398	34	2										
Fitchburg, Mass.	Apr. 2.	22,037	10	3						1				
Grand Rapids, Mich.	Apr. 9.	60,278	15	1							1			
Haverhill, Mass.	do.	27,412	13	3									2	
Hoboken, N. J.	do.	43,648	22								1	2		
Indianapolis, Ind.	Apr. 2.	108,436	45	11							1	1	1	
Ironton, Ohio.	Apr. 9.	10,939	5	1						1				
Jacksonville, Fla.	Apr. 2.	17,201	11	5										
Do	Apr. 9.	17,201	12	3										
Jersey City, N. J.	Apr. 3.	163,008	73	9						1	3	3		1
Johnstown, Pa.	Apr. 9.	21,806	13											
Lancaster, Pa.	Apr. 2.	32,011	12							1				
Lawrence, Mass.	do.	44,654	17	1										
Do	Apr. 9.	44,654	19	1										
Lowell, Mass.	do.	77,696	29	5										
Lynchburg, Va.	do.	19,709	9	2										
Manchester, N. H.	do.	44,126	17	1										
Massillon, Ohio	Apr. 2.	10,092	3									1		
Do	Apr. 9.	10,092	4											
Medford, Mass.	do.	11,079	2	2										
Melrose, Mass.	Apr. 2.	8,519	6											
Memphis, Tenn.	Apr. 9.	64,495	16	4										
Middletown, N. Y.	Apr. 7.	11,977	7	1									4	2
Minneapolis, Minn.	Apr. 2.	164,738	52	2									4	2
Nashville, Tenn.	Apr. 9.	76,168	5							1			1	
New Bedford, Mass.	do.	40,733	18	3								1		
Newburyport, Mass.	Apr. 2.	13,947	6	1										
New Orleans, La.	do.	242,039	80	10										
Newport, R. I.	Apr. 7.	19,457	4											
New York, N. Y.	Mar. 26.	1,515,301	1,290	158						4	21	37	29	18
Do	Apr. 2.	1,515,301	1,276	166						9	30	50	21	13
Do	Apr. 9.	1,515,301	1,195	148						5	17	34	22	14
Norristown, Pa.	do.	19,791	6	2										
Omaha, Nebr.	Apr. 2.	140,452	10											
Oneonta, N. Y.	Apr. 9.	6,272	1											
Orange, N. J.	do.	18,844	9	1								2		
Palmer, Mass.	do.	6,520	2											
Philadelphia, Pa.	do.	1,046,964	419	43						15	4	13	11	2
Petersburg, Va.	Apr. 10.	22,680	10	1										
Pittsburg, Pa.	Apr. 2.	238,617	86	8						2		1	1	2
Pittsfield, Mass.	Apr. 9.	17,281	6											
Plainfield, N. J.	do.	11,267	3											
Portland, Me.	Apr. 2.	36,425	9	1										
Do	Apr. 9.	36,425	18							1				
Pottstown, Pa.	Apr. 1.	13,284	4											
Providence, R. I.	Apr. 9.	132,146	58	6							2			
Reading, Pa.	Apr. 11.	58,661	23	3										

Table of temperature and rainfall, week ended April 4, 1898.

[Received from Department of Agriculture, Weather Bureau.]

Locality.	Temperature in degrees Fahrenheit.			Rainfall in inches and hundredths.		
	Normal.	a Excess.	a Deficiency.	Normal.	Excess.	Deficiency.
Atlantic Coast:						
Eastport, Me.....	33		2	.87	1.04	
Portland, Me.....	37		3	.70		.23
Northfield, Vt.....	31		1	.49		.32
Boston, Mass.....	39	0		.84	.08	
Vineyard Haven, Mass.....	42		1	.92	.59	
Nantucket, Mass.....	39		1	.84	.01	
Woods Hole, Mass.....	39		1	1.05	.33	
Block Island, R. I.....	38		1	.84	.72	
New Haven, Conn.....	40		1	.87	.07	
Albany, N. Y.....	38		1	.56		.06
New York, N. Y.....	42		2	.84	.09	
Harrisburg, Pa.....	43	0		.80	.07	
Philadelphia, Pa.....	45	0		.71	.03	
New Brunswick, N. J.....	43		1	.82	.34	
Atlantic City, N. J.....	42	0		.84	.17	
Baltimore, Md.....	47		1	.87	.26	
Washington, D. C.....	47		2	.84	.06	
Lynchburg, Va.....	51		4	.77	.47	
Cape Henry, Va.....	50		1	1.12		.51
Norfolk, Va.....	52	0		.98		.11
Charlotte, N. C.....	55		4	.94	2.01	
Raleigh, N. C.....	54		3	.72	1.08	
Kittyhawk, N. C.....	51		1	1.15		.55
Hatteras, N. C.....	53			1.22		
Wilmington, N. C.....	58		2	.79		.39
Columbia, S. C.....	58		3	.79		.19
Charleston, S. C.....	60	1		.84		.84
Augusta, Ga.....	59		2	.91		.30
Savannah, Ga.....	62	0		.84		.77
Jacksonville, Fla.....	65	2		.73		.45
Jupiter, Fla.....	70	2		.49		.44
Key West, Fla.....	75			.21		
Gulf States:						
Atlanta, Ga.....	57		4	.99	.81	
Tampa, Fla.....	68	2		.55		.55
Pensacola, Fla.....	63		1	1.00	.02	
Mobile, Ala.....	62		3	1.51		.20
Montgomery, Ala.....	61		4	1.29		.07
Vicksburg, Miss.....	62		8	1.40	.63	
New Orleans, La.....	65		5	1.25		.11
Shreveport, La.....	63		10	1.09	.23	
Fort Smith, Ark.....	57		6	.96		.57
Little Rock, Ark.....	58		8	1.01		.84
Palestine, Tex.....	63		10	.95	.26	
Galveston, Tex.....	67		7	.63		.24
San Antonio, Tex.....	66		11	.60	.37	
Corpus Christi, Tex.....	67		10	.35		.10
Ohio Valley and Tennessee:						
Memphis, Tenn.....	57		7	1.30		.82
Nashville, Tenn.....	54		7	1.12		.38
Chattanooga, Tenn.....	55		6	1.22		.48
Knoxville, Tenn.....	53		5	1.19	.16	
Louisville, Ky.....	50		8	1.02		.88
Indianapolis, Ind.....	46		5	.84		.78
Cincinnati, Ohio.....	48			.70		
Columbus, Ohio.....	44		5	.70		.17
Parkersburg, W. Va.....	49		9	.77	.13	
Pittsburg, Pa.....	45		6	.63	.24	
Lake Region:						
Oswego, N. Y.....	36		1	.52	.12	
Rochester, N. Y.....	36		2	.59	.35	
Buffalo, N. Y.....	36		3	.56		.33
Erie, Pa.....	38		5	.56		.04
Cleveland, Ohio.....	39		3	.57		.23
Sandusky, Ohio.....	40		2	.56		.45
Toledo, Ohio.....	40		3	.49		.46
Detroit, Mich.....	38		4	.49		.38
Lansing, Mich.....	37		5	.52		.26
Port Huron, Mich.....	35		2	.52		.36
Alpena, Mich.....	30		2	.42		.40
Sault Ste. Marie, Mich.....	30		7	.35		.29
Marquette, Mich.....	30		5	.42	.39	
Green Bay, Wis.....	35		4	.49		.24

a The figures in these columns represent the average daily departure.

Table of temperature and rainfall, week ended April 4, 1898—Continued.

Locality.	Temperature in degrees Fahrenheit.			Rainfall in inches and hundredths.		
	Normal.	Excess.	Deficiency.	Normal.	Excess.	Deficiency.
Lake Region—Continued.						
Grand Haven, Mich.....	36		4	.56		.51
Milwaukee, Wis.....	36		2	.60		.56
Chicago, Ill.....	40		4	.67		.59
Duluth, Minn.....	32		5	.46		.46
Upper Mississippi Valley:						
St. Paul, Minn.....	37		8	.44		.07
La Crosse, Wis.....	39		7	.42		.37
Dubuque, Iowa.....	41		5	.60		.60
Davenport, Iowa.....	42		4	.56		.56
Des Moines, Iowa.....	43		5	.46		.45
Keokuk, Iowa.....	45		4	.55		.11
Springfield, Ill.....	47		7	.72		.43
Cairo, Ill.....	53		7	.90		.57
St. Louis, Mo.....	50		6	.84		.29
Missouri Valley:						
Columbia, Mo.....	49		6	.82		.10
Springfield, Mo.....	54		11	.77	.00	
Kansas City, Mo.....	48		3	.54	.52	
Wichita, Kans.....	48		10	.49		.22
Concordia, Kans.....	48		8	.42		.34
Lincoln, Nebr.....	45		8	.40	1.04	
Omaha, Nebr.....	43		7	.53		.08
Sioux City, Iowa.....	43		7	.44		.43
Yankton, S. Dak.....	39		2	.53		.51
Valentine, Nebr.....	39		4	.53		.27
Huron, S. Dak.....	38		7	.53		.53
Pierre, S. Dak.....	41		7	.34		.34
Moorhead, Minn.....	30		2	.33		.33
Bismarck, N. Dak.....	34		6	.39		.38
Williston, N. Dak.....	35		16	.18		.17
Rocky Mountain Region:						
Havre, Mont.....	39		22	.18		.14
Helena, Mont.....	39		9	.21		.04
Miles City, Mont.....	39		13	.21		.15
Rapid City, S. Dak.....	40		10	.39		.21
Spokane, Wash.....	45		3	.28	.12	
Wallawalla, Wash.....	49		4	.42		.12
Baker City, Oreg.....	40		2	.30		.17
Winnemucca, Nev.....	46		7	.21		.21
Salt Lake City, Utah.....	46		6	.49	.03	
Lander, Wyo.....	37			.39		
Cheyenne, Wyo.....	38		8	.25		.13
North Platte, Nebr.....	42		5	.33		.31
Denver, Colo.....	43		8	.32	.31	
Pueblo, Colo.....	46		8	.18		.04
Dodge City, Kans.....	48		8	.28		.18
Oklahoma, Okla.....	56		10	.69		.47
Amarillo, Tex.....	51		10	.17		.08
Abilene, Tex.....	61		9	.41		.35
Santa Fe, N. Mex.....	44		6	.14		.07
El Paso, Tex.....	61		3	.07		.07
Phoenix, Ariz.....	65		5	.07		.07
Pacific Coast:						
Fort Canby, Wash.....	47		5	1.36		.66
Portland, Oreg.....	50		5	.96		.69
Roseburg, Oreg.....	51		7	.63		.52
Eureka, Cal.....	49			1.34		
Redbluff, Cal.....	57	0		.62		.21
Carson City, Nev.....	46		6	.24		.09
Sacramento, Cal.....	57		2	.62		.58
San Francisco, Cal.....	54		3	.59		.59
Fresno, Cal.....	57	1		.39		.39
Los Angeles, Cal.....	58	1		.52		.52
San Diego, Cal.....	57		1	.22		.22
Yuma, Ariz.....	68		5	.04		.04

a The figures in these columns represent the average daily departure.

FOREIGN.

[Reports received from United States consuls through the Department of State and from other sources.]

Cholera, yellow fever, plague, and smallpox as reported to the Supervising Surgeon-General United States Marine-Hospital Service, January 1 to April 15, 1898.

CHOLERA.

Places.	Date.	Cases.	Deaths.	Remarks.
India:				
Bombay.....	Nov. 24-Nov. 30.....		4	
	Dec. 1-Mar. 1.....		55	
	Mar. 2-Mar. 8.....		4	
Calcutta.....	Nov. 14-Dec. 4.....		42	
	Dec. 5-Jan. 1.....		31	
	Jan. 2-Jan. 29.....		28	
Madras.....	Jan. 30-Feb. 26.....		82	
	Nov. 30-Dec. 10.....		8	
	Dec. 4-Dec. 31.....		11	
	Jan. 1-Jan. 28.....		45	
	Jan. 29-Mar. 4.....		26	
Singapore.....	Nov. 1-Nov. 30.....		1	
	Dec. 1-Dec. 31.....		1	

YELLOW FEVER.

Brazil:				
Bahia.....	Dec. 27.....	3	2	Taken off of Nor. bk. Adonis.
	Dec. 29.....	6		
Ceara.....	Nov. 1-Nov. 30.....		1	
Para.....	Dec. 12-Jan. 1.....		24	
	Jan. 2-Jan. 15.....		22	
	Jan. 16-Feb. 28.....		30	
Rio de Janeiro.....	Nov. 21-Dec. 4.....	1		
	Dec. 5-Jan. 1.....	8	3	
	Jan. 1-Jan. 29.....	22	17	
	Jan. 30-Mar. 11.....	183	163	
Sao Carlos de Pinhal.....	Feb. 28.....			Yellow fever reported.
Santos.....	Jan. 2-Jan. 8.....	1	1	
	Jan. 23-Jan. 29.....	3		
	Jan. 30-Feb. 5.....	2		
Cuba:				
Cienfuegos.....	Dec. 20-Jan. 2.....		2	
	Jan. 3-Jan. 23.....		1	
Habana.....	Dec. 17-Dec. 30.....		6	
	Dec. 31-Jan. 27.....		9	
	Jan. 28-Feb. 17.....		3	
	Mar. 4-Mar. 31.....		4	
Manzanillo.....	Dec. 1-Dec. 31.....		28	
	Jan. 1-Jan. 31.....		9	
	Feb. 14-Feb. 28.....		3	
Matanzas.....	Dec. 15-Jan. 19.....		4	
	Feb. 9-Feb. 23.....		2	
Regla.....	Dec. 31-Feb. 28.....		7	
	Mar. 1-Mar. 24.....		2	
Sagua la Grande.....	Dec. 18-Jan. 20.....			A few cases of yellow fever, but impossible to obtain statistics.
Santiago de Cuba.....	Dec. 19-Jan. 29.....		6	
Jamaica:				
Kingston.....	Dec. 19-Jan. 1.....	1	1	
	Jan. 2-Jan. 31.....	2	2	
	Feb. 5-Feb. 19.....	2	1	
St. Andrew.....	Dec. 19-Jan. 1.....	1		
	Feb. 27-Mar. 5.....	1	1	
St. Catherine.....	Dec. 19-Jan. 1.....	1		
St. Elizabeth.....	Dec. 19-Jan. 1.....	1	1	

Cholera, yellow fever, plague, smallpox, etc.—Continued.

PLAGUE.

Places.	Date.	Cases.	Deaths.	Remarks.
Arabia:				
Jiddah.....	Mar. 25.....		3	
China:				
Hongkong.....	Nov. 7-Nov. 20...	2	2	
	Dec. 18-Jan. 1...	2	2	
	Jan. 2-Jan. 29...	6	5	
	Jan. 30-Feb. 19...	18	14	
India:				
Bombay.....	Nov. 24-Nov. 30...		70	
	Dec. 1-Feb. 8...		4,833	
	Feb. 9-Mar. 1...		3,436	
	Mar. 2-Mar. 8...		1,283	
Japan:				
Taiwan (Formosa).....	Dec. 28-Mar. 4...	77		

SMALLPOX.

Bohemia:				
Prague.....	Dec. 12-Jan. 1...	11		
	Jan. 2-Mar. 19...	85		
Brazil:				
Pernambuco.....	Dec. 1-Dec. 25...		8	
Rio de Janeiro.....	Nov. 21-Dec. 4...	10		
	Dec. 5-Jan. 1...	9	1	
	Jan. 1-Mar. 11...	1	1	
Canada:				
Maisonneuve.....	Jan. 26-Feb. 16...	3		
Montreal.....	Jan. 3-Jan. 12...	3	0	
	Feb. 11-Feb. 16...	1		
China:				
Hongkong.....	Nov. 7-Dec. 4...	6	4	
	Dec. 5-Jan. 1...	11	8	
	Jan. 2-Feb. 19...	131	80	
Cuba:				
Cardenas.....	Dec. 19-Jan. 22...		5	
	Mar. 6-Mar. 27...		8	
Cienfuegos.....	Dec. 20-Jan. 2...		7	
	Jan. 3-Jan. 23...		19	
	Feb. 7-Feb. 27...		35	
	Feb. 28-Mar. 20...		6	
Habana.....	Dec. 17-Mar. 31...		150	
Matanzas.....	Jan. 20-Feb. 23...		8	
Regla.....	Feb. 18-Mar. 31...		3	
Sagua la Grande.....	Dec. 19-Jan. 29...	233	29	
	Jan. 30-Feb. 26...	470	35	
	Feb. 27-Apr. 4...	437	26	
England:				
Bristol.....	Feb. 6-Feb. 19...	1		
Gibraltar.....	Mar. 13-Mar. 27...	3		
Liverpool.....	Jan. 15-Jan. 29...	3		
	Feb. 1-Feb. 19...	4		
London.....	Feb. 27-Mar. 26...	4		
Middlesborough.....	Feb. 9.....	90		
Newcastle on Tyne.....	Mar. 19-Mar. 26...	1		
Southampton.....	Jan. 8-Feb. 12...	2		
Sunderland.....	Dec. 18-Jan. 8...	1		
	Feb. 27-Mar. 26...	4		
West Hartlepool.....	Jan. 9-Jan. 22...	5		
Germany:				
Hamburg.....	Mar. 6-Mar. 12...	2		
Gibraltar.....	Dec. 6-Dec. 12...	1		
	Dec. 27-Jan. 30...	2		
India:				
Bombay.....	Feb. 9-Mar. 8...		3	
Calcutta.....	Dec. 19-Dec. 25...		1	
	Jan. 30-Feb. 26...		13	
Madras.....	Nov. 27-Dec. 3...		1	
	Dec. 4-Dec. 31...		3	
	Jan. 1-Jan. 28...		6	
	Jan. 29-Feb. 4...		6	
	Feb. 5-Mar. 4...		22	
Italy:				
Messina.....	Dec. 12-Jan. 8...		5	
	Jan. 30-Feb. 26...		2	
Japan:				
Aichi Ken.....	Dec. 28-Mar. 3...	3		
Akita Ken.....	Dec. 28-Mar. 3...	12	4	

Cholera, yellow fever, plague, smallpox, etc.—Continued.

SMALLPOX—Continued.

Places.	Date.	Cases.	Deaths.	Remarks.
Japan—Continued.				
Awomori Ken.....	Dec. 28-Mar. 3...	23	3	
Chiba Ken.....	Dec. 28-Feb. 3...	6	.....
Formosa.....	Feb. 4-Mar. 3...	7	4	
Fukui Ken.....	Dec. 28-Feb. 3...	1	.....
Fukushima Ken.....	Dec. 28-Mar. 3...	66	14	
Gifu Ken.....	Feb. 4-Feb. 22...	1	.....
Gumma Ken.....	Feb. 4-Feb. 22...	1	.....
Hiroshima Ken.....	Jan. 22-Feb. 3...	1	.....
Iwate Ken.....	Dec. 28-Mar. 3...	24	3	
Kagoshima Ken.....	Feb. 4-Feb. 22...	1	.....
Kanagawa Ken.....	Dec. 28-Jan. 21...	3	.....
Kochi Ken.....	Dec. 28-Jan. 21...	1	.....
Miyagi Ken.....	Dec. 17-Dec. 27...	2	3	
Miyazaki Ken.....	Dec. 28-Mar. 3...	33	8	
Nagano Ken.....	Jan. 22-Feb. 3...	3	1	
Nagasaki Ken.....	Feb. 4-Mar. 3...	8	4	
Okayama Ken.....	Jan. 22-Feb. 22...	3	1	
Osaka Fu.....	Feb. 4-Feb. 22...	2	1	
Saitama Ken.....	Dec. 28-Feb. 22...	2	.....
Tokyo Fu.....	Dec. 17-Dec. 27...	1	.....
Yamagata Ken.....	Dec. 28-Feb. 22...	5	.....
Yamaguchi Ken.....	Jan. 22-Mar. 3...	25	6	
Yehime Ken.....	Feb. 4-Feb. 22...	9	.....
The Hokkaido.....	Dec. 17-Mar. 3...	43	7	
	Dec. 17-Dec. 27...	70	26	
	Dec. 28-Mar. 3...	276	79	
Netherlands:				
Amsterdam.....	Dec. 12-Dec. 24...	1	.....
Rotterdam.....	Dec. 12-Dec. 31...	3	1	
Russia:				
Moscow.....	Jan. 1-Jan. 29...	1	.....
	Nov. 23-Dec. 4...	1	1	
	Dec. 5-Dec. 11...	1	1	
	Jan. 1-Feb. 19...	10	3	
Odessa.....	Dec. 5-Jan. 1...	53	9	
	Jan. 2-Jan. 29...	34	7	
	Jan. 30-Mar. 19...	36	7	
St. Petersburg.....	Dec. 4-Dec. 25...	35	13	
	Jan. 9-Jan. 29...	56	19	
	Jan. 30-Mar. 19...	.....	32	
Warsaw.....	Dec. 19-Mar. 19...	.....	61	
Scotland:				
Glasgow.....	Dec. 5-Dec. 25...	3	1	
Spain:				
Corunna.....	Jan. 1-Feb. 5...	.....	2	
Madrid.....	Dec. 22-Dec. 28...	.....	1	
	Feb. 8-Feb. 23...	.....	2	
Turkey:				
Constantinople.....	Jan. 10-Feb. 6...	.....	53	
	Feb. 28-Mar. 13...	.....	18	
Uruguay:				
Montevideo.....	Dec. 25-Jan. 1...	1	.....
Venezuela:				
Puerto Cabello.....	Apr. 2.....	.....	.....	Smallpox reported.
Wales:				
Cardiff.....	Dec. 18-Dec. 24...	1	.....

BRAZIL.

*Sanitary report from Rio—Sanarelli's serum.*RIO DE JANEIRO, *March 16, 1898.*

SIR: I have the honor to transmit the report for the last week, ended March 11:

There were 44 deaths from yellow fever, an increase of 2 in the foregoing week, and 65 new cases of yellow fever, an increase of 26; 29 deaths from fever and accesso pernicioso, an increase of 14; no case of typhoid fever, a decrease of 6; 1 death from diphtheria and also from measles, none before; 9 deaths from beriberi, a decrease of 3, and 51 deaths from consumption, an increase of 3.

Yellow fever.—At the invitation of some physicians and the Sao Paulo Government, Prof. Dr. Sanarelli, of Montevideo, went to Sao Carlos do Pinhal (where, it appears, the yellow fever germ remains endemic) in order to make experiments with the treatment of a special serum. As regards the results, Dr. Sanarelli reports the following:

"The serum in question is obtained from horses, which were immunised during twelve to fourteen months previously, not with toxin, but successively with cultures. Dr. Sanarelli was unable to observe any antitoxic substances in the blood. The serum was not therefore antitoxic, but rather bactericidal."

Here in Rio de Janeiro, in the yellow fever hospital of San Sebastiao, the experiment had already been tried on 8 patients, 5 of whom became very ill; 4 were cured and the other 4 patients died.

At Sao Carlos do Pinhal, Sanarelli next applied the serum to 6 patients; 2 died and 4 were cured. Then he made the intravenous application of the substance, injecting 15 to 100 grams directly into the blood. This application was followed by a not inconsiderable reaction, such as congestion of the skin, of the conjunctivæ, sensation of heat in the head, cough, occasional vomiting, and erythema in different places; also increased temperature, which, however, soon decreased. Of 16 patients under treatment 4 died. Therefore the serum treatment resulted in a mortality of 27 per cent, whilst the yellow fever hospital had at most an average of 45 per cent.

I beg to make a few remarks:

(1) The number of 22 patients treated in this manner is much too small to enable me to come to any conclusion.

(2) If it is possible to judge from the description, the intensity of the sickness of those which were cured was not considerable, and it is open to question whether the treatment that was formerly employed would not have given the same result.

In addition to the above result, which was at once considered as a success by Sanarelli, he has given a prophylactic value to the serum. Sanarelli arrives at this conclusion from experience on his own person, which he immunised in this manner, and further, from an occurrence in the prison, the guard of which became ill. In spite of the disinfection 2 more cases occurred, 1 of these fatal. Then Sanarelli vaccinated all the prisoners, the number of which is not given, with exception of 1, who was already ill, and 2 soldiers, lately arrived from Europe. No other cases occurred.

From the above the following criticism is possible:

Sanarelli was formerly in Rio, and occupied with yellow-fever patients, and bodies and he never became ill, without having been previously vaccinated himself. The number of the prophylactically

vaccinated prisoners, which certainly was not very great, does not allow of a conclusive result.

I reserve, until I shall publish in some professional journal, the results of my experiments to control the labors of Sanarelli, but I beg here to remark that the bacillus icteroides is the cause of yellow fever, I do not consider absolutely certain, but very probable, in which case it would render Sanarelli's name immortal.

I have mixed the serum, derived from a convalescent yellow fever patient who had recovered from his sickness three weeks previously, with a culture of bacillus icteroides, but I could not observe the slightest agglutination; the bacillus increased in the serum. These observations collected by me allow of different conclusions, which I shall treat of in another place.

I trust that these few remarks will be of interest to you.

Since last report the following-named ships have been inspected and received bills of health from this office: March 8, steamship, *Darlecandia*, German, for New York. March 8, bark *Amy*, American, for Baltimore. March 11, bark, *Auriga*, British, for Brunswick. March 12, steamship *Holbein*, British, for New York. March 14, bark, *Marjory Glen*, British, Savannah. March 16, bark *Bertha*, Portuguese, for New Orleans.

Respectfully, yours,

W. HAVELBURG, M. D.,

Acting Sanitary Inspector, U. S. M. H. S.

The SUPERVISING SURGEON-GENERAL,

U. S. Marine-Hospital Service.

CUBA.

Sanitary report from Habana.

HABANA, April 6, 1898.

SIR: I have the honor to submit the following report for the week ended Thursday, March 31. A panic has developed here by Cubans and foreign residents who have besieged this office for examination and vaccination preparatory to going to the United States. I have handled the immense crowds as rapidly as possible, but have not relaxed any regulation. The mortality for the week is slightly below that of preceding weeks. There has been some increase in the deaths from enteric fever and enteritis. There is yet little yellow fever, but 2 deaths occurring in military hospitals. Smallpox is decreasing.

Very respectfully,

W. F. BRUNNER,

Sanitary Inspector, U. S. M. H. S.

The SUPERVISING SURGEON-GENERAL,

U. S. Marine-Hospital Service.

[Inclosure No. 1.]

Number of persons applying for passenger certificates.

	Granted.	Refused.
Florida:		
Key West.....	38	.....
Tampa.....	121	.....
New York:		
Ward Line.....	40	.....
Spanish Line.....	8	.....
New Orleans:		
Morgan Line.....	8	.....
Total.....	215	.....

[Inclosure No. 2.]

Mortality of the city of Habana and town of Regla for the week ended Thursday, March 31, 1898.

Cause of death.	Habana.	Regla.	Total.
Yellow fever.....	2		2
Enteric fever.....	21	1	22
Pernicious fever.....	4		4
Malarial fever.....	3		3
Smallpox.....	9	1	10
Caquexia paludica.....	13	3	16
Enteritis.....	66	6	72
Dysentery.....	20	11	31
Diarrhea.....	5		5
Diphtheria.....	3		3
Pneumonia.....	11		11
Tuberculosis.....	39	5	44
Deaths from all causes.....	328	32	368
Deaths in military hospitals.....	54	25	79
Deaths in military hospitals from yellow fever.....	2		2
Annual ratio per 1,000.....			93.60

DANISH WEST INDIES.

Quarantine against Puerto Rico revoked.

DEPARTMENT OF STATE,
Washington, D. C., April 5, 1898.

SIR: By direction of the Secretary of State, I have the honor to inclose for your information copy of dispatch No. 20, of the 23d ultimo, from our minister at Copenhagen, reporting that the quarantine declared by the Danish West Indies against Mayaguez, Puerto Rico, has been revoked.

Respectfully, yours,

WILLIAM R. DAY,
Assistant Secretary.

HON. SECRETARY OF THE TREASURY.

[Inclosure.]

LEGATION OF THE UNITED STATES,
Copenhagen, March 23, 1898.

SIR: I have the honor to report that the quarantine declared by the Danish West Indies against Mayaguez, Puerto Rico, May 13 last, was revoked on the 19th ultimo.

I have the honor to be, sir, your obedient servant,

LAURITS S. SWENSON.

HON. SECRETARY OF STATE.

DENMARK.

Leprosy in the Kingdom of Denmark, including Iceland and the Danish West Indies.

COPENHAGEN, March 26, 1898.

A new law has just been signed about the lepers in Iceland. A special hospital, a gift from the Danish branch of the Independent Order of Odd Fellows, was built in Copenhagen last winter, and it is now on its way to Reykjavik, Iceland, where it is going to be opened on July 24, 1898.

Referring to this consulate's report about leprosy in Iceland, dated

January 7, 1895, Dr. Ehlers informs me that the last time (summer of 1895) he was in Iceland there were 181 known lepers. He thinks, however, that there must be over 200, but the new law must settle this question, as every leper's name has to be entered in a special protocol, and he is, by law, compelled to report.

Unfortunately leprosy exists also in the Danish West Indies. The official statistics, which, however, are considered too low, estimate the number of lepers at St. Thomas, Danish West Indies, 22 patients; St. Croix, Danish West Indies, 82 patients, of whom only 23 are in the hospitals, as no compulsory law exists.

The Kingdom of Denmark proper is not known to have any lepers, although it is not impossible that Copenhagen, as all larger cities in Europe, has a few who have contracted the disease abroad. Dr. Ehlers, who is the greatest authority in Denmark and whose name is known throughout the world for his great work in the interest of the unfortunate lepers, divides the disease in two classes—(1) tuberculous and mixed leprosy and (2) pure anesthetic leprosy. The latter is not considered contagious, as the bacilli of this disease are not found in any tissues except the nerves. It is, therefore, the intention to isolate first the patients suffering from tuberculous and mixed leprosy.

I inclose translation of the two laws.

JULES BLOM,
Vice and Deputy Consul.

[Translation—Inclosure No. 1.]

Law about the establishment and working of a hospital for lepers at Reykjavik, Iceland.

COPENHAGEN, February 4, 1898.

Paragraph 1. When a hospital for lepers at Reykjavik has been finished and handed over to the Government, a sum of kroner 16,000 (\$4,288) may be expended in furnishing it.

Par. 2. A special doctor shall be appointed to the hospital, and his salary shall be kroner 2,700 (\$723.60). This doctor shall, besides his duties as doctor at the hospital, and superintendent over the same, without special compensation, teach the pupils at the doctor school in one or more branches of instruction.

Par. 3. The yearly expenses for the working of the hospital shall be granted by the finance committee.

Par. 4. Patients are placed in the hospital, subject to the laws now in force. If there is room for more, then other lepers who themselves express the wish can be placed in the hospital.

Par. 5. The hospital committee consists of the governor for the south and west counties, and the surgeon-general of Iceland.

Should the branch of the Odd Fellows' Association in Denmark establish a branch in Iceland, then its committee has the right to appoint a member of the same to the hospital committee. The governor of Iceland draws up rules for the hospital and its officers.

THE MINISTRY FOR ICELAND.

[Translation—Inclosure No. 2.]

Law about lepers isolation and placing in a public hospital.

COPENHAGEN, February 4, 1898.

Paragraph 1. The names of all lepers must be entered in a special protocol by every county physician. The protocol shall be arranged by the surgeon-general and the special leper doctor, and the cost of the same shall be paid by the Government. Once a year the county physicians must send the surgeon-general an extract of the protocol.

Par. 2. When a leper moves from one county to another then the doctor in his county has to inform the doctor in the other county of the removal.

Par. 3. The doctor must carefully watch the lepers' mode of living in their districts; they must inform the lepers and the persons living with them of the necessary precau-

tions to be taken by the lepers themselves and by the others, in order to avoid the communication of the disease to the latter. The doctors must enforce these instructions.

The board of health inspectors are instructed to help the doctors to the best of their ability.

Par. 4. The lepers must always follow the following rules, viz :

1. Lepers must not sleep in the same bed with others, married people, however, excepted, unless the doctor decides otherwise.

2. Every leper shall have his own cuspidor, and he must not spit on the floor.

3. He must have special plates, knives, forks, and spoons, tablecloth, etc., which he only must use.

4. Lepers' bedsheets, wearing apparel, plates, knives, forks, spoons, and tablecloth must be cleaned and washed separately. The bandages for the sores must, after use, be burnt or disinfected by being boiled in water for at least one-half hour.

5. Lepers are forbidden to tend children, wait on nonlepers, and cook for others.

6. Lepers are forbidden to visit others and receive visits from others.

Extraordinary precautions, prescribed by the doctor, under any given circumstances, must be implicitly obeyed by the lepers.

Par. 5. Rooms occupied by a leper must not be used by others unless disinfected, as instructed by the doctor. Wearing apparel, bedclothes, etc., used by a leper must also be disinfected.

Par. 6. Should a leper die or remove to another place, then the owner of the leper's former home must immediately inform the inspector or the police, who, within a fortnight, must inform the respective doctor thereof. The latter must, without delay, see that the leper's rooms, wearing apparel, bedclothes, etc., which he has left on the spot, be sufficiently disinfected.

Par. 7. Lepers who receive help from the public charity association must, when the county physician considers it necessary, be placed in the hospital for lepers.

If no room, then the party must be placed so that there is a guaranty that the rules prescribed in paragraph 4 are complied with.

The placing of these lepers should, when circumstances permit, be made so that married couples are not separated against their will. Should the doctor's decision bring about such a separation, then it is only legal if sanctioned by the governor. Children of leprous parents, who receive help from the public charity association, shall always be reared in outside homes.

The municipality must not, without the doctor's consent, place poorhouse inmates in homes where lepers already live.

Par. 8. The placing of other lepers in the lepers' hospital can be authorized by the governor in exceptional cases upon the recommendation of the respective municipality and doctor. This can, however, only take place when either the rules given in paragraph 4 or the extraordinary precautions mentioned in the last sentence of the same paragraph have not been strictly complied with or the doctor thinks that the illness and danger of contagion are of such a serious nature that the placing of the individual is necessary.

In the cases here mentioned it is also understood that married couples are not to be separated against their will except under exceptional circumstances.

Par. 9. When this law comes into force the assistance of the police can, when necessary, be called upon for placing lepers in the hospital.

Par. 10. All the expenses for the lepers maintenance in the lepers hospital as well as the expenses for bringing them there, in accordance with paragraph 8, are paid by the county treasurer. The placing in the hospital of lepers in accordance with paragraph 7 must be paid by the municipality. The expenses, by renewed placing of a patient who has left the hospital without the manager's permission, must be paid by himself, provided he has the means for so doing.

Par. 11. Traveling expenses incurred by the doctors, in accordance with this law, are refunded to them on the same terms as if for public service. All disbursements and expenses for disinfection, in accordance with paragraph 6, must be paid by the county treasurer.

Par. 12. Contraventions of the rules given in paragraph 5 and omission to report, in accordance with paragraph 6, are punished with fines of up to 200 kroner (\$53.60), and are imposed by the police.

Par. 13. This law takes effect three months after the date the official notice that the lepers' hospital is, or will be ready, has been inserted in the government's newspaper under division B.

THE MINISTRY FOR ICELAND.

STATISTICAL REPORTS.

CHINA—*Hongkong*.—Three months ended December 31, 1898. Estimated population, 261,258. Total deaths, 1,282, including smallpox, 14; plague 4, and enteric fever, 1.

COLOMBIA—*Barranquilla*.—Month of February, 1898. Estimated population, 40,000. Total deaths, 64, including 1 from enteric fever.

GREAT BRITAIN—*England and Wales*.—The deaths registered in 33 great towns in England and Wales during the week ended March 26 correspond to an annual rate of 20.2 a thousand of the aggregate population, which is estimated at 11,218,378. The highest rate was recorded in Swansea, viz, 31.2, and the lowest in Blackburn, viz, 14.5.

London.—One thousand seven hundred and thirty-one deaths were registered during the week, including measles, 143; scarlet fever, 15; diphtheria, 53; whooping cough, 59; enteric fever, 1; typhus fever, 1, and diarrhea and dysentery, 9. The deaths from all causes correspond to an annual rate of 21.0 a thousand. In greater London 2,262 deaths were registered, corresponding to an annual rate of 18.4 a thousand of the population. In the "outer ring" the deaths included 44 from measles, 3 from scarlet fever, 16 from diphtheria, and 14 from whooping cough.

Ireland.—The average annual death rate represented by the deaths registered during the week ended March 26 in the 23 principal town districts of Ireland was 26.9 a thousand of the population. The lowest rate was recorded in Clonmel, viz, 0.0, and the highest in Galway, viz, 45.3 a thousand. In Dublin and suburbs 198 deaths were registered, including enteric fever, 6; scarlet fever, 2, and whooping cough, 3.

Scotland.—The deaths registered in 8 principal towns during the week ended March 26 correspond to an annual rate of 22.9 a thousand of the population, which is estimated at 1,568,536. The lowest mortality was recorded in Greenock, viz, 15.3, and the highest in Glasgow, viz, 25.1 a thousand. The aggregate number of deaths registered from all causes was 692, including measles, 25; scarlet fever, 7; diphtheria, 3, and whooping cough, 25.

ST. HELENA.—Four weeks ended March 5, 1898. Estimated population, 4,000. Total deaths, 4. No deaths from contagious diseases.

MORTALITY TABLE, FOREIGN CITIES.

Cities.	Week ended.	Estimated population.	Total deaths from all causes.	Deaths from—							
				Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.
Acapulco.....	Mar. 26.....	5,000	6								
Aix la Chapelle.....	Mar. 19.....	127,069	42							1	1
Amherstburg.....	Apr. 2.....	2,300	1								
Amsterdam.....	Mar. 26.....	504,289	169								3
Belfast.....	do.....	304,610	144					8		1	3
Berlin.....	Mar. 12.....	1,728,201	571					6	13	5	
Do.....	Mar. 19.....	1,728,201	576					1	7	9	1
Birmingham.....	Mar. 26.....	506,772	178					2	3	2	7
Bombay.....	Mar. 1.....	600,000	a 2,080	5							18
Do.....	Mar. 8.....	600,000	b 2,184	4	1						14
Bradford.....	Mar. 26.....	231,260	114					2			5
Bremen.....	Mar. 12.....	143,500	62					1			3
Do.....	Mar. 19.....	143,500	55								4
Bristol.....	do.....	316,900	142								17
Do.....	Mar. 26.....	316,900	145					1		1	24
Brussels.....	Mar. 19.....	531,024	169					1			3
Budapest.....	Mar. 26.....	640,000							1	4	2
Calcutta.....	Feb. 26.....	681,560	456	18	4	1				2	2
Cardenas.....	Mar. 26.....	23,517	30					10			
Do.....	Apr. 2.....	23,517	33					9			
Cardiff.....	Mar. 26.....	177,770	72							5	1
Catania.....	Mar. 24.....	120,000	47				2	1			
Chemnitz.....	Mar. 19.....	172,840	83				1			1	
Cognac.....	Mar. 28.....	20,000	5								
Cologne.....	Mar. 19.....	341,578	126							5	2
Colombo.....	Mar. 5.....	130,000	111					4			2
Colon.....	Mar. 5.....	8,000	1								
Do.....	Mar. 28.....	8,000	4								
Copenhagen.....	Mar. 12.....	351,000	118							2	1
Crefeld.....	Mar. 26.....	110,000	22					1			2
Demerara.....	Feb. 26.....	86,250	54								
Do.....	Feb. 12.....	86,250	49								
Do.....	Feb. 19.....	86,250	56								
Do.....	Feb. 26.....	86,250	43								
Dresden.....	Mar. 5.....	376,500	132							2	1
Dublin.....	Mar. 26.....	350,000	198					6	2		3
Dundee.....	Mar. 19.....	164,575	67						1		1
Do.....	Mar. 26.....	164,575	70						1		
Dusseldorf.....	Mar. 19.....	191,608	61					1		1	
Edinburgh.....	Mar. 28.....	295,628	133						3	2	3
Flushing.....	Mar. 26.....	17,193	4								
Frankfort on the Main.....	do.....	244,000	63					1	2		2
Ghent.....	Mar. 19.....	161,125	74							1	
Do.....	Mar. 26.....	161,125	69								
Gibraltar.....	Mar. 20.....	25,900	8								
Do.....	Mar. 27.....	25,900	7								
Girgenti.....	Mar. 19.....	24,428	15								
Gothenburg.....	do.....	119,754	44							1	1
Gusayaguil.....	Mar. 25.....	50,000	76							1	1
Halifax.....	Apr. 2.....	38,700	13								
Hamburg.....	Mar. 26.....	661,015	220							1	4
Hamilton, Bermuda.....	Apr. 1.....	2,000	0								
Havre.....	Mar. 19.....	119,470	66					1			
Do.....	Mar. 26.....	119,470	57					1			
Kingston, Canada.....	Apr. 8.....	18,800	9								
Leghorn.....	Mar. 23.....	104,053	33					1			
Do.....	Mar. 27.....	104,053	34							1	
Leith.....	Mar. 13.....	76,277	28								
Licata.....	Mar. 19.....	20,000	11					1			
Liege.....	do.....	166,110	53								
Liverpool.....	Mar. 26.....	647,489	288					2	1	3	4
London, England.....	Mar. 19.....	6,408,321	2,409					11	12	46	164
Do.....	Mar. 26.....	6,408,321	2,262					6	18	69	187
Lyons.....	Mar. 12.....	466,028	198					1			1
Madrid.....	Mar. 23.....	491,595	344					8	5	2	12
Magdeburg.....	Mar. 12.....	222,603	68						1		1
Do.....	Mar. 26.....	222,603	80								3
Manchester.....	do.....	505,543	189					3	1	2	4
Matamoros.....	Apr. 1.....	16,304	7								
Matanzas.....	Mar. 23.....	40,000	69								
Mayence.....	Mar. 26.....	76,984	40								3
Melbourne.....	Jan. 28.....	450,000						8	1	1	
Do.....	Feb. 5.....	450,000						13	1	1	

a One thousand and ninety-seven deaths from plague.

b One thousand two hundred and eighty-three deaths from plague.

MORTALITY TABLE, FOREIGN CITIES—Continued.

Cities.	Week ended.	Estimated population.	Total deaths from all causes.	Deaths from—								
				Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
Melbourne	Feb. 12.	450,000						10	1	1		
Do	Feb. 19.	450,000						5	1	5		
Do	Feb. 26.	450,000						6	1	5		
Do	Mar. 5.	450,000						9		3		
Messina	Mar. 19.	107,000	44					1				
Do	Mar. 26.	107,000	39		1			1				
Montevideo	Mar. 5.	215,061	59									
Naples.	Mar. 19.	570,000	235					8				
Newcastle-on-Tyne.	Mar. 26.	223,000	85						1	2	2	1
Nuremberg	Mar. 12.	183,397	85									
Odessa.	Mar. 19.	383,000	183			1		1	1	5	2	1
Osaka and Hiogo.	Mar. 5.	202,912	133									
Palermo	Mar. 19.	273,000	135							1		
Plymouth	Mar. 26.	99,136	45									
Prague	Mar. 19.	195,919	151					2	2		7	1
Puerto Cortez	Mar. 30.	2,000	0									
Quebec	Apr. 2.	72,000								2		
Queenstown	Mar. 12.	15,000	3									
Do	Mar. 19.	15,000	3									
Do	Mar. 26.	15,000	4									
Rio de Janeiro	Feb. 25.	750,000	342	37		4	1			1		
Do	Mar. 4.	750,000	304	42			6					
Do	Mar. 11.	750,000	432	14						1	1	
Rome	Nov. 20.	483,560	173				2			2	1	
Do	Nov. 27.	483,560	173				3				3	
Do	Dec. 18.	483,560	168				4			1	2	
Do	Dec. 25.	483,560	179				2			2	2	
Do	Jan. 1.	483,560	227				2			1	5	
Do	Jan. 8.	483,560	223				1				3	
Do	Jan. 15.	483,560	204				1				9	
Do	Jan. 22.	483,560	204								8	
Do	Jan. 29.	483,560	249								1	4
Do	Feb. 5.	483,560	231				1			1	9	
Do	Feb. 12.	483,560	278				4			1	9	
Do	Feb. 19.	483,560	322				1			1	7	
Rotterdam	Mar. 26.	299,343	132							1	1	
Sagua la Grande	Mar. 26.	17,536	30			7						
Do	Apr. 2	17,536	27			1						
St. Georges	do	2,150	0									
St. John Antigua	Feb. 5.	16,679	13									
Do	Feb. 12.	16,679	13									
Do	Feb. 19.	16,679	16									
Do	Feb. 26.	16,679	11									
Do	Mar. 19.	16,679	9									
St. Petersburg	Mar. 12.	1,267,023	703			1		38	20	29	10	
Do	Mar. 19.	1,267,023	654			2	1	40	18	13	13	1
St. Stephen	Apr. 2	3,000	0									
St. Thomas, West Indies	Feb. 25.	12,019	4									
Do	Mar. 4.	12,019	8									
Do	Mar. 11.	12,019	3									
Do	Mar. 18.	12,019	7									
Schiedam	Mar. 26.	26,884	11									
Sheffield	Mar. 28.	358,276	143					2	2	1	7	6
Sonneberg	Mar. 5.	12,400	3									
Do	Mar. 12.	12,400	3									
Southampton	Mar. 26.	100,886	30									
South Shields	do	95,591	40									
Stettin	Mar. 19.	150,000	63					2				
Stockholm	do	275,000	97						1	3	2	
Stuttgart	Mar. 24.	162,934	60							6		2
Sunderland	Mar. 26.	143,849	62									
Trapani	Mar. 19.	45,095	15					1		1	1	1
Trieste	do	165,000	104									
Tuxpan	Feb. 26.	10,280	9					1		2		
Do	Mar. 13.	10,280	9									
Venice	Mar. 12.	167,074	63									
Vera Cruz	Mar. 30.	30,000	27									
Vienna	Mar. 5.	1,574,129	668							5	24	2
Do	Mar. 12.	1,574,129	643					3				
Warsaw	Mar. 19.	601,408	232					4	2	11	20	2
Zurich	do	158,968	69			9	1	1	2	6	2	3

By authority of the Secretary of the Treasury:

WALTER WYMAN,
Supervising Surgeon-General U. S. Marine-Hospital Service.